



## On Space Power and Space Bombs

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**Abstract:** Einstein used to tell time and again that imagination is more important than knowledge. Imagination is the initiation for discoveries and inventions. Except the developed countries, electricity scarcity is a burning issue for the developing and underdeveloped countries. And making atomic bombs needs Uranium, Thorium and other precious and expensive raw materials. Considering these, in this paper, the author proposes to generate electricity from space and making of space bombs which is an alternative weapon to Atomic bombs which is currently in use and preparation.

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### 1. Generation of electricity from space

The history of the humankind is a history of scarce natural resources: land, water, food and energy. We all need them, but they are scarce. What would we do if some of these vital resources became unlimited and free as air? What would become of our economies, our nations and our world?

Energy is required for everything that we do, and it is the most important thing after food, upon which the life of nations depend. Lack of power could cause economies to cripple. A flourishing power generation industry is considered to be a sign of prosperity for any nation. We get electricity from electric power generators that create electricity from natural power sources, such as water, coal, wind and nuclear energies, but the costs are high. Due to the scarcity of those natural resources, the whole world, and developing countries in special, are facing a number of challenges and problems.

It is said that access to oil -an extremely important source of energy and wealth of nations- is the reason behind many wars and military actions. Besides that terrible fact, also in less than one century the contaminant effects of using oil to power our economies, transportation, our lives and the world in general, has put our planet and all life on it at an immense peril. That action alone has brought upon us consequences never before imaginable in history. These are truly apocalyptic or Orwellian times. Humanity has hoped on the train to planetary destruction and annihilation. We most hop off that train immediately or at least change its course and

slow it down. We must never put our lives at risk blindly for the sake of progress and economic prosperity. Progress and development will never be sustainable if life is at risk, even if it's on a very long term. Despite being two parallel and interdependent existing technologies or resources, oil use must be completely replaced by the electricity obtained from clean generation sources, in order to save the life of our planet, humanity, and all species living on it.

Millions and even billions of dollars are invested every year to advance energy technologies, in order to try to solve our immense energy needs. However, one thing is certain, we keep consuming energy at an ever growing rate, and satisfying today's demand won't satisfy demand in the future. Only one logical solution, despite somewhat fantastic, seems obvious for building a great world and society free of the problems of scarce energy sources: finding a free, unlimited source of energy. In this work, the author proposes an entirely new type of electricity production: electricity out from the very fabric of space.

### On Gravity

It is well known that the concept of gravity began with Aristotle, Copernicus, Tyco de Brahe, Kepler, Newton and Einstein. Aristotle said that heavy objects fall faster than light ones. This notion dominated people for nearly 2000 years. But Galileo disproved this idea by conducting an experiment at the leaning tower in Pisa. Tyco Brahe devoted his life for several decades and collected a number of data. His assistant,

Kepler, by using his mentor's data, carved out a set of empirical laws known as Kepler's law of motion. By studying and applying Kepler's ideas, Newton deduced his law of gravity in terms of masses. Newton's laws of motion and universal gravitational laws were un-challenged by the research community for more than 250 years.

From 1905 to 1915, Einstein rigorously studied gravity and formulated that due to the presence of mass in the space, the space-time is curved. The presence of mass in space alters/deforms the geometry of space. And gravity is nothing but the manifestation of space-time curvature. This space-time curvature of Einstein was experimentally established a number of times.

General relativity explains gravity as distortion of the structure of space-time by matter, affecting the inertial motion of other matter. General relativity predicts that the path of light is bent in a gravitational field. Light passing a massive body is deflected towards that body. This effect has been confirmed by observing the light of stars or distant quasars being deflected as it passes our sun.

Newton worked with four independent entities: mass, energy, space and time. Einstein unified space and time by Lorentz transformation and matter and energy by the famous relation  $E = mc^2$ . Thus Einstein's relativity reduces Newton's four quantities into two: space-time and mass-energy. For Newton gravity is "action at a distance". He simply outlined that two objects attract each other. In 1692 Newton wrote a letter to Richard Bentley. He wrote: "You sometimes speak of gravity as essential and inherent to matter. Pray do not ascribe that notion to me, for the cause of gravity is what I do not pretend to know and therefore would take more time to consider it." Nearly after 250 years, Einstein found the cause for the effect of gravity. Both these great scientific pillars had doubts about their theories. The following three sayings are the evidences:

"I am like a child playing on the shore with pebbles and shells while the whole ocean lies before me" - Newton. "In my field equations the left hand side is of fine marble but the right hand side is of perishable wood" - Einstein. "When I compare all our theories with the mighty reality, they are all trash. However they are the most precious ones we have today" - Einstein.

The author restudied space-time curvature and formulates that **it is not mass but the attractive force of mass which warps space-time. About Space About Space**

What is common throughout the whole universe, the whole of space, even more than matter, light and many kinds of energy? The answer is simple: space itself. Space is everywhere (at least on this universe).

If we removed all visible matter from the universe, and left an empty universe, pure empty space, we will still have all that space! But what is space? Is it nothing or is it something? As with everything else in the Universe, the nature of space should most probably be related to energy and matter.

This is the single most important question in modern physics. Einstein himself said that so far as his general relativity is concerned, space (actually space-time) and the gravitational field are the same things. We see it as something that is empty because, in modern language, we cannot see the quantum particles called gravitons out of which it is 'manufactured'.

Everything is made up of atoms. Inside atoms are protons, neutrons and electrons, which in turn are made up of quarks and leptons. Forces that hold together these particles are carried by bosons. In the Standard Model of Particle Physics, which is at the core of modern physics, three of the four fundamental forces of physics are described, along with the particles that mediate these forces - gauge bosons.

A graviton is a theoretical virtual particle which would mediate the fourth fundamental force of gravity. It is proposed by various theories of quantum gravity. The graviton would support a quantum representation of gravity which would consolidate it with the other fundamental forces of physics, which are also mediated by virtual particles. Gravitons have not been experimentally observed. The theoretical models that include them predict a mass less particle of spin 2, which would make it a boson.

Gravitons are theoretical particles having no mass and no charge that carry the gravitational force. The graviton is a boson. The existence of a graviton has not yet been confirmed experimentally, although string theory predicts the existence of gravitons as closed strings with the minimum possible energy. It is also theorized that gravitons interact with leptons and quarks.

Not even light can escape from black holes, but black holes cannot stop gravitons -the gravity force-from leaving them, thus the great gravitational attraction of black holes lying in the center of galaxies, pulling all stars towards them.

Everything came from space. Gravity is everywhere in space. According to Einstein's general theory of relativity, we cannot separate gravity from space. It is a part and partial of space. Both are interlinked. Experiments continue to show that there is no 'space' that stands apart from space-time itself; no arena in which matter, energy and gravity operate which is not affected by matter, energy and gravity. General relativity tells us that what we call space is just another feature of the gravitational field of the universe, so space and space-time can and do not exist apart from the matter and energy that creates the

gravitational field. This is not speculation, but sound observation.

### About Energy

Matter is made up of tiny particles like electrons, protons and neutrons. Matter, antimatter and dark matter are the three kinds of matter. Antimatter is also made up of particles such as electrons, protons and neutrons but having a negative value. The nature and the properties of dark matter is still a burning issue in physics. There are many conjectures, hypotheses and so called theories for dark matter. But it is mathematically manifested. Several experiments have been performed to deduct dark matter. The existence of dark matter is proved only by mathematical equations but it lacks experimental verification. According to Einstein's special relativity theory, matter and energy are equivalent.  $E=MC^2$ . Whenever energy is transformed into mass, shape and volume, it is called matter.

A gravitational field contains energy just like electromagnetic fields do. This energy also produces its own gravity, and this means that unlike all other fields, gravity can interact with itself and is not 'neutral'. The quantum particles/energy in the gravitational field of spacetime may account for the mysterious dark matter and dark energy. Energy is the ability to bring about change or to do work. Energy exists in many forms, such as heat, light, chemical energy, and electrical energy. There are many kinds of energies such as mechanical, thermal, elastic, sound, luminous, radiant, nuclear and electric.

Thermodynamics is the study of energy. The first law of thermodynamics states that energy cannot be created or destroyed. The second law of thermodynamics states that "in all energy exchanges, if no energy enters or leaves the system, the potential energy of the state will always be less than that of the initial state." This is also commonly referred to as entropy. The proposed new device obeys the above two laws of thermodynamics. Energy cannot be created or destroyed, but it **can be changed** or transformed from one form to another.

Electricity generation is the process of generating electric energy from other forms of energy. The fundamental principles of electricity generation were discovered during the 1820s and early 1830s by the British scientist Michael Faraday. His basic method is still used to generate electricity.

Although Faraday received little formal education and knew little of higher mathematics, such as calculus, he was one of the most influential scientists in history. Historians of science refer to him as the best experimentalist in the history of science. Faraday was the first and foremost Fuller an Professor of Chemistry at the Royal Institution of Great Britain. Albert Einstein kept a photograph of Faraday on his

study wall alongside pictures of Isaac Newton and James Clerk Maxwell.

Maxwell unified electric and magnetic forces. It is called electromagnetic force. Abdus Salam and Steven Weinberg unified electromagnetic and nuclear weak interaction forces. This is called electroweak force. Physicists are attempting to unify electroweak and nuclear strong interaction forces with gravitational force. It is believed that this theoretical effort will be achieved shortly. But the experimental verification will remain untouched. It means that we have to convert electromagnetic and nuclear forces into gravitational force.

### About Geometry

***"If you have not enjoyed Euclid in your youth, then you are probably not made for a scientific career."***

- Albert Einstein

"It is now possible to appreciate how much of science has become mathematized in the form of geometry. Since the days of Euclid the laws of physical space had been no more than theorems of this geometry. Hipparchus, Ptolemy, Copernicus, and Kepler summarized the motions of the heavenly bodies in geometrical terms. With his telescope Galileo extended the application of geometry to infinite space and to many millions of heavenly bodies.

When Lobachevski, Bolyai, and Riemann showed us how to construct different geometrical worlds (non-Euclidian geometry), Einstein seized the idea in order to fit our physical world into a four-dimensional, mathematical one. Thereby gravity, time, and matter became, along with space, merely part of the structure of geometry. Thus the belief of the classical Greeks that reality can be best understood in terms of geometrical properties and the Renaissance doctrine of Descartes that the phenomena of matter and motion can be explained in terms of the geometry of space, have received sweeping affirmation."

- Morris Kline, *"Mathematics and the Search for Knowledge"*.

The investigations devoted to the fifth Euclidean postulate problem gave birth to two consistent models of non-Euclidean geometries namely elliptic and hyperbolic. Einstein applied the concepts of these geometries to formulate his General Relativity theory. General Relativity is the geometrical interpretation of spacetime and matter. Each and every new physical theory relies on a new branch of geometry.

***"Significant scientific breakthroughs are rarely accepted when they are first announced. A scientist who makes a ground breaking discovery – a Copernicus, a Galileo, or a William Harvey – is likely to be ignored or even ostracized for years."***

-Thomas Kuhn, *"The structure of scientific revolutions"*.

When Lobachevski in 1829 and Riemann in 1854 published their ground breaking non Euclidean results, the research community did NOT agree with them and their beautiful inventions were ignored. Riemann concluded that it would be for physicists to further probe his results. After 86 years of Lobachevski's publication and after 61 years of Riemann's publication, Einstein gave recognition and concrete consistencies for both the non Euclidean geometries by successfully incorporating these non Euclidean conceptions in his relativity theories. That's why Einstein said: "Great spirits have often encountered violent opposition from weak minds."

2300 years old fifth Euclidean postulate problem is one of the most famous mathematical impossibilities. This proposition, which is 2300 years old, was established by Lobachevski, Bolyai, Gauss and Riemann to be impossible to prove. All the top mathematicians tried their best and trotted their great brains for 40 to 50 long years to find a solution. But unfortunately their efforts were not successful. But the author re-probed this problem for more than 30 years and found 44 solutions.

At the end of the nineteenth century, Beltrami, Klein, Cayley, Poincare and others showed that it is not possible to deduce Euclid V from Euclid I to IV. But the author has proved the last mathematical impossibility.

### **Power, Unlimited Power**

Backed by this great accomplishments, the author is also convinced that it is possible to generate power directly from space (even if someone may say it is not). So I politely but confidently declare that I can be successful in the implementation of this project.

The accepted physics says that gravitons are the mediators of gravity. The author proposes to generate power directly from gravitons. The author has modeled a device to generate power from space-gravitons. Space-gravitons is our new terminology like Einstein's space-time. This technology needs no other resources, like oil, water, hydrogen, wind or sun rays, at all. Only a device is to be made. And this is easy and cheap. This machine receives energy from space and transforms it into electric power, and it can operate anywhere.

The proposed device holds three elliptic shaped items that are the receivers of energy. At the center of the spherical type place, this energy received directly from space is converted into electricity. A number of items are to be fit to the arrangement. In 1954, Albert Einstein said that matter teaches space how to behave. This is what happens in the device. It will make space to get electric power.

The author's power generation method from space obeys the laws of thermodynamics, the predictions of Einstein's Special and General

Relativity theories, the laws of heat transfer and the concepts of the Big Bang theory.

This is an entirely NEW technology. The author's power generator will get electricity from space at all times and at all places during day & night. The cost of this converter is extremely cheap. As we put on the lights or the TV, we can also put on and off this device easily to generate free electricity from space.

### **Conclusion**

Recently, the Institute of Astronomy of Cambridge University experimentally proved the existence of black holes. Gravitational waves, dark matter, dark energy and quantum gravity are posing a great challenge to physicists. The author's power generation device may reveal some fresh clues for the solution of these problems.

### **2. On Space Bombs**

According to Einstein's STR ( Special Theory of Relativity ) matter and energy are equivalent. i.e. Matter can be converted into energy. In 1945, 40 years after the publication of  $E = mc$  result, the atomic bombs were made. Nowadays several countries are in possession of modern powers.

In 1986, M. Philips, graduate student of Princeton University proved that the manufacture if micro atomic bombs are possible. To make an atomic bomb several costly raw materials are required. The preparation process is very dangerous. A very huge amount of money is needed. It is possible for a replica of an atomic bomb? And also without any raw materials and facing risk of process? The answer is yes. The alternative candidate to the atomic bomb is a space bomb.

According to Einstein's general theory of relativity, we should not separate gravity from space. It is a part and partial of space. Even light cannot escape from black holes but the black holes cannot detain gravitons. Needless to say, we can switch on and switch off TVs at our home by remote control. Even satellites which are away from several lacks of kilometers are remotely controlled. Similarly let us try and control the gravitons. If we could control gravitons, we can transform gravitational force into nuclear strong interaction force. By merely sitting at our home on earth, we can do the wonders say in the moon, mars, mercury etc.

One may assert that it is purely impossible. Let us recall Napoleon Bonaparte, the famous French Emperor's, most quotable sayings: "The word impossible should be taken away from the dictionary". The author deduced the fifth Euclidean's postulate from the other four postulates This proposition, which is 2300 years old, was established by, Beltrami, Cayley, Klein, Poincare and others. that it is

impossible to prove. But the author has proved it. So I sincerely feel that making of space bombs will become a reality.

***“Imagination is more important than knowledge” – Albert Einstein***

### **Space Bombs wars**

Everything came from space. Gravity is everywhere in space. We can't separate gravity and space. Both are interlinked. There are five kinds of forces. viz gravitational, magnetic, electric, nuclear weak interaction and nuclear strong interaction forces. Maxwell unified electric and magnetic forces. It is called electromagnetic force. Abdus Salam and Steven Weinberg unified electromagnetic and nuclear weak interaction forces. This is called electroweak force.

Physicists are attempting to unify electroweak and nuclear strong interaction forces with gravitational force. It is believed that this theoretical effort will be achieved shortly. But the experimental verification will remain untouched. It means that we have to convert electromagnetic and nuclear forces into gravitational force. If one can be successful in this he/she is definitely the Generator, Operator and Destroyer of this Universe.

A Cautionary Tale:

The eminent Nobel Laureate physicist Prof. Ms. Lynda Johnson, 41, lives in Florida. She has been working hard to convert gravitational force into nuclear force and nuclear forces into gravitational forces for the last 15 years. Many brilliant research assistants are also working with Prof. Lynda. Ms. Lynda is successful in her efforts. She could be able to convert gravitational force into nuclear strong interaction force. The name of her invention is Space Energy – Remote – Control.

Allen Brutus is the most dangerous and wicked Mafia Chief. One of Ms. Lynda's associates is Miss Diana Rossi. Miss Diana is the concubine of Brutus. With the help of Diana, Brutus kills Prof. Lynda Johnson and steals the Space Energy – Remote – Control.

Brutus uses Graviton – Remote – Control (hereafter called GRC) for evil purposes. When he clicks the “destruction button” the important offices, industries, dams, research centers etc., explodes into pieces and ashes. GRC converts gravity around those places into strong interaction force and everything burns in a minute. All the combined forces of army, navy, air force and ICBM (inter continental ballistic missiles) could not even reach the head quarters of Brutus. The reason is that Brutus has built with the help of SERC a strong graviton fence around his place. When all the sophisticated destruction missiles and robots approach the graviton fence, it swallows and nothing happens.

Brutus blackmails world leaders and people to

obey him. His ambition is to rule the whole earth. He says that he is the GOD. All the effort, to defeat Brutus fails on earth.

Dr. Moses is one of the old students of physicist Lynda Johnson. He attempts to invent an antidote for SERC. Ultimately, after perpetual attempts, he has found an anti space energy remote control (Hereafter called SERC). SERC destroys space energy device built by Brutus. And, thank God, Anti SERC makes SERC vanish into gravity – space. Brutus is captured alive and put behind the bars.

### **Further Readings**

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